- 1. (amended) A method for the regeneration of a plant comprising the steps of:
 - a) providing a plant explant comprising a shoot meristem or primordia;
- b) culturing the explant in a media comprising an apical dominance inhibitor selected from the group consisting of dikegulac, methyl laurate and octadecyl-polyethoxyethanol to induce bud or shoot formation from the explant; and
 - c) rooting the explants containing buds or shoots to produce a plant.
- 9. (amended) The method of claim 5, wherein the dikegulac is present at a concentration from about 5 to about 5000 mg/L.
- 13. (amended) The method of claim 12, wherein said cotton plant is a commercial variety or elite line.
- 15. (amended) The method of claim 1, wherein said explant is the zygotic embryo or an explant thereof.
- 16. (amended) The method of claim 1, wherein said shoot meristem or primordia explant is a node, the cotyledonary node, shoot tip, or an explant thereof.
- 17. (amended) The method of claim 1, wherein said shoot meristem or primordia explant is an in vitro-produced shoot, tissue culture, shoot culture, or an explant thereof.
- 18. (amended) The method of claim 1, wherein the media is MS, MS/B5, GD1, Gamborg's media, WPM, modified LP, DKW, Nitsch and Nitsch media, or Schenk and Hildebrandt media.
- 19. (amended) A method for the regeneration of a transgenic plant comprising the steps of:
 - a) providing an explant of a plant comprising a shoot meristem or primordia;
 - b) introducing a recombinant DNA vector into the explant to generate a transformed explant;